



Department of the Environment

Cambridge Town Gas Site – Public Meeting



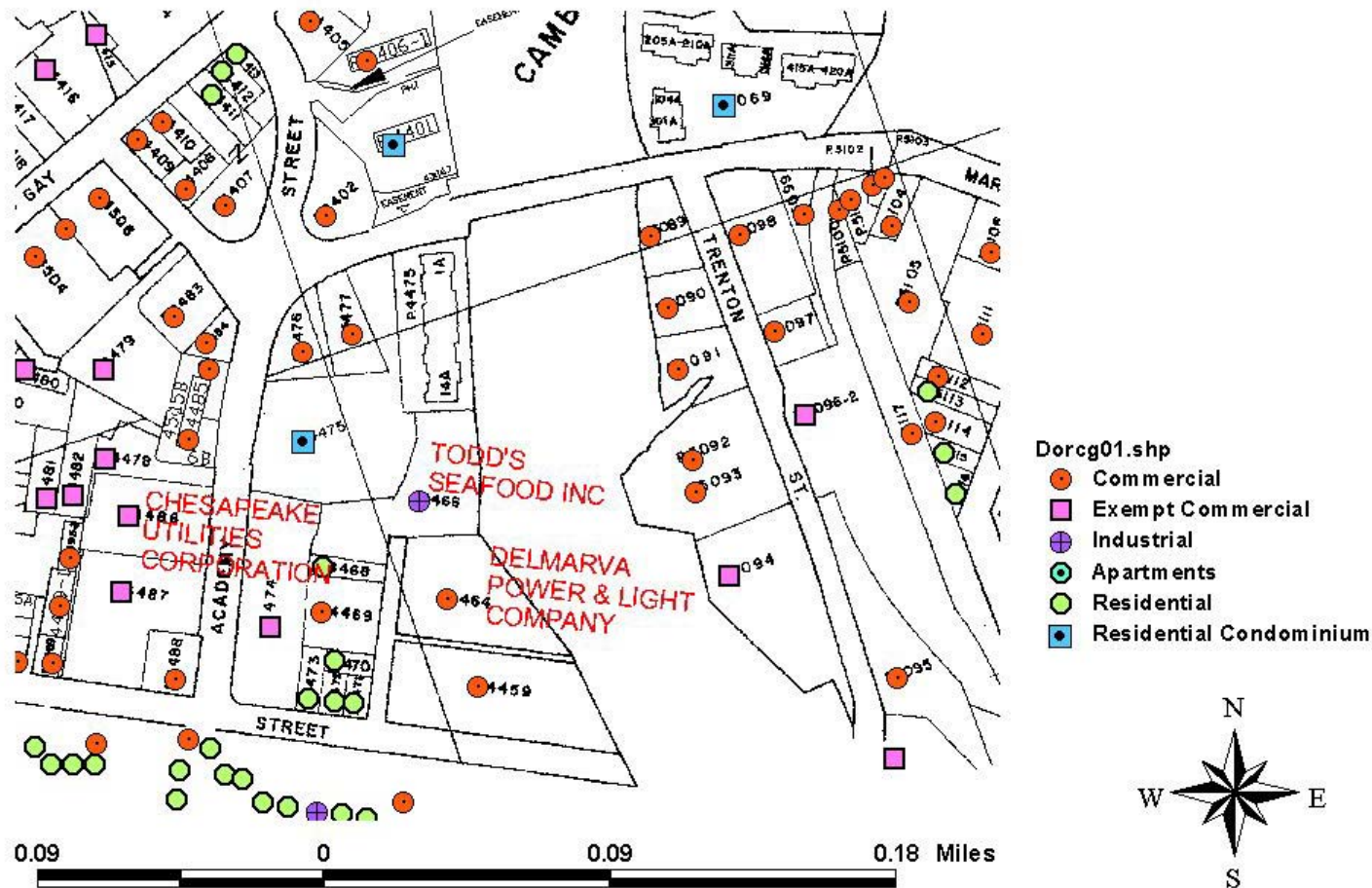
September 17, 2007



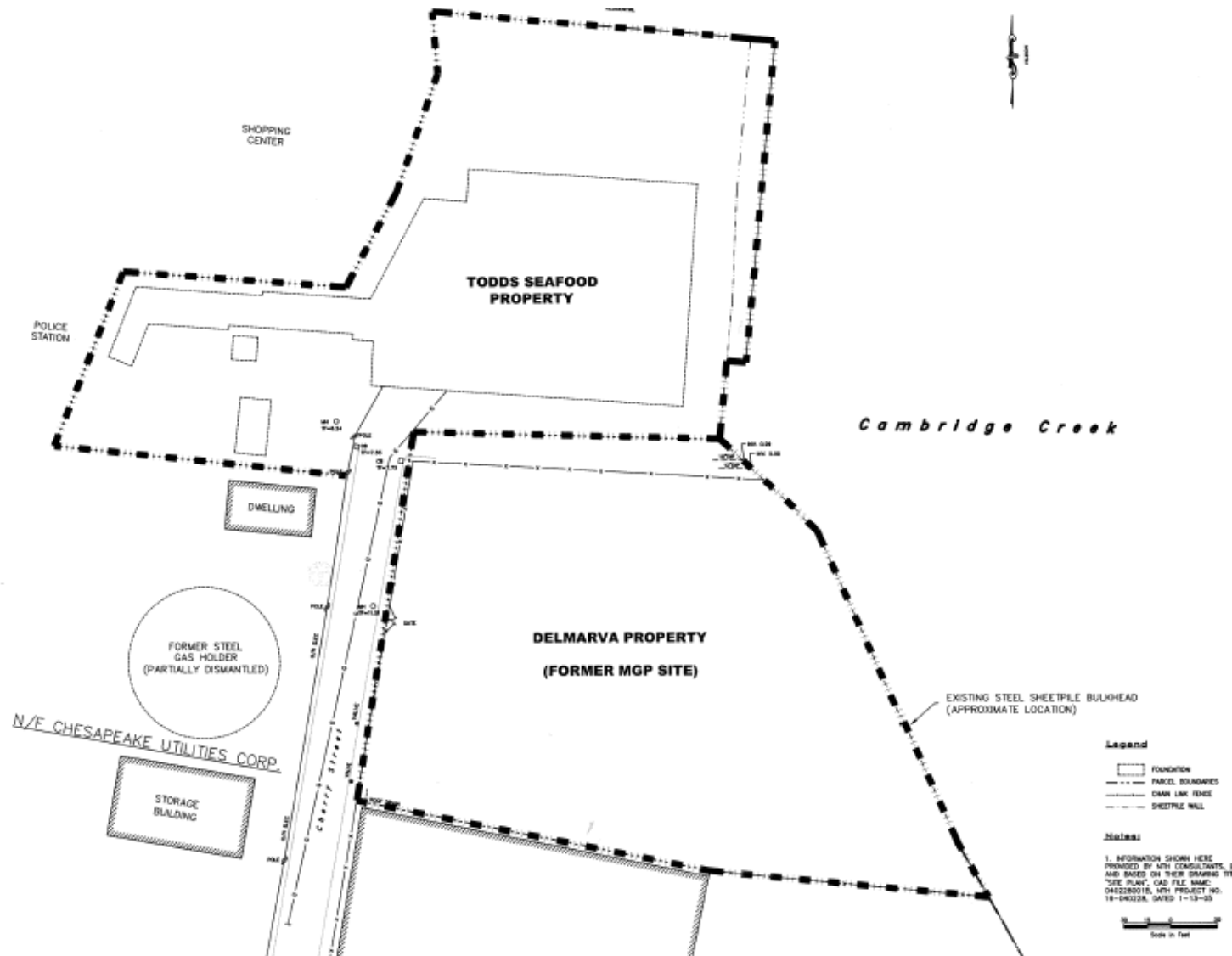
AGENDA

- Background
- Overview of Environmental Activities
- Planned Activities
- Project Contacts
- Questions and Answers

Background—Site Description



Background--Site Description



Background

- What is a Manufactured Gas Plant?
- Why Do Many Former MGP Sites Require Environmental Restoration?
- What is Coal Tar?



Timeline of Environmental Activities

1985

- Discovery and removal of gasholder on western side of Cherry Street
- DPL removed six inches of tar-like substance for Chesapeake Utilities

1990-98

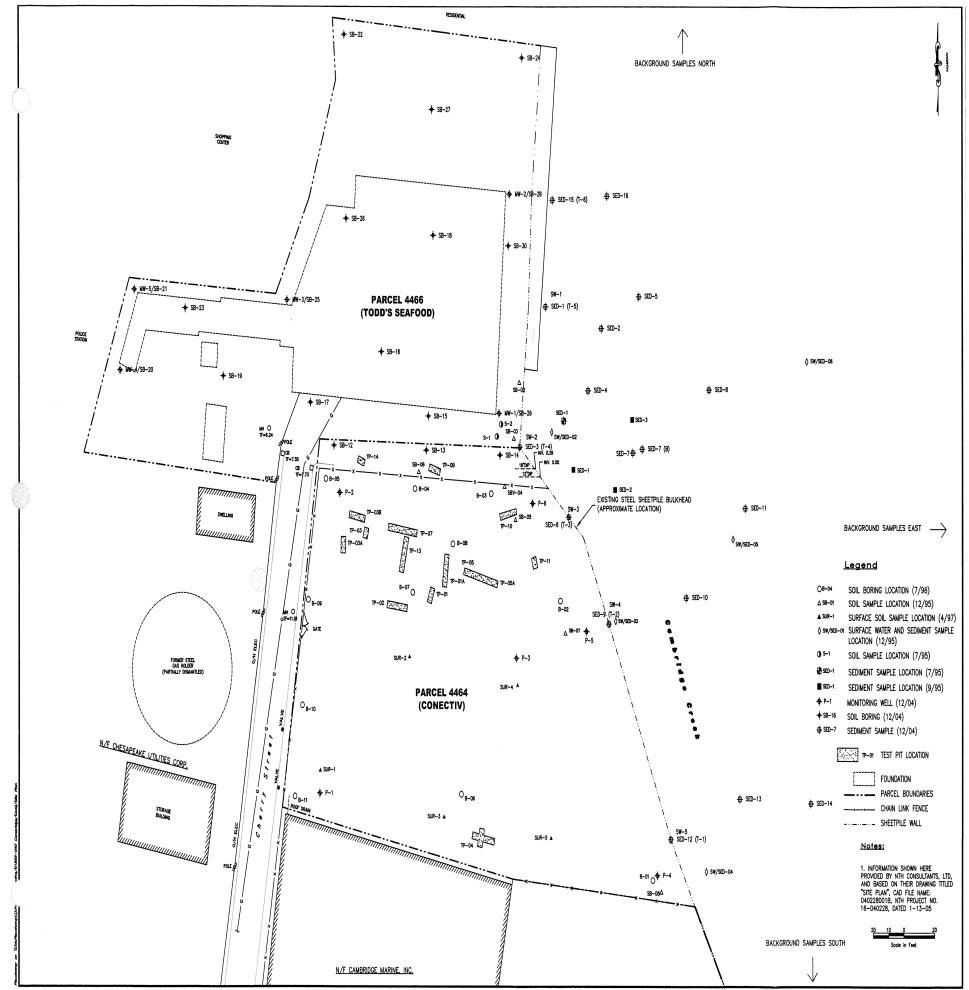
- Assessment and Decommissioning Activities at Site:
 - Remaining tanks, above grade structures, including buildings removed
 - Three below ground tanks containing coal tar removed
 - Purifier wastes at site removed
 - Approximately 500 tons of coal tar impacted soil, concrete and debris excavated and removed from the site
 - A new steel bulkhead was placed along Cambridge Creek

1999-Today

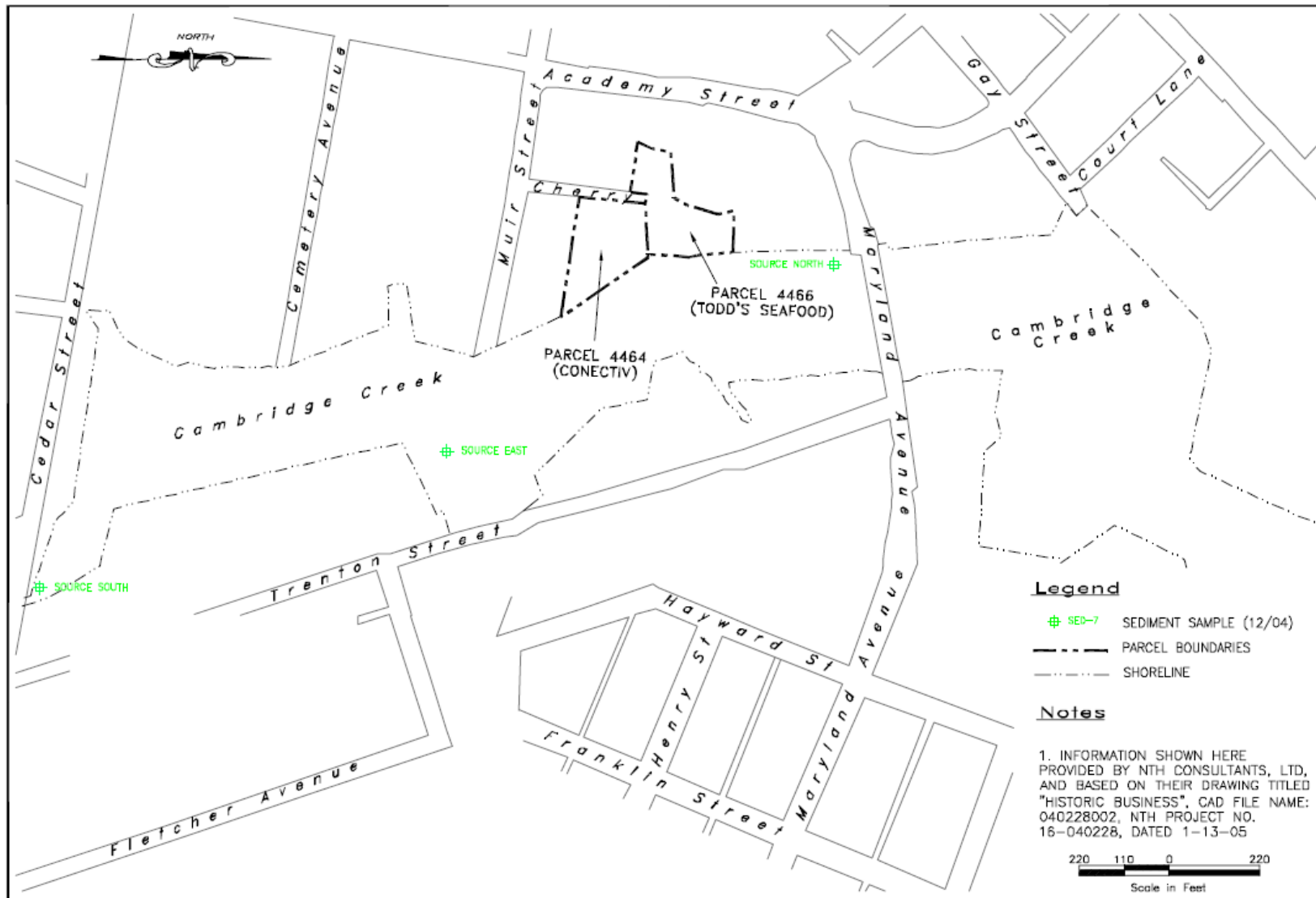
- Additional On- and Offsite Assessment Conducted by DPL and MDE
- Administrative Consent Order between MDE and DPL signed June 2004
 - Required characterization of vertical and horizontal extent of contamination on former MGP site, Todd Seafood property and Cambridge Creek
- Remedial Planning
 - Remedial plan submitted in February 2007 for cleanup of former MGP site, Todd Seafood property and Cambridge Creek

Environmental Activities -- Studies

- Assessment of Site and nearby Cambridge Creek includes:
 - Surface soil sampling
 - Test soil borings
 - Test pit excavations
 - Groundwater monitoring well installations/testing
 - Creek water sampling/testing
 - Creek sediment test borings
 - Taxonomic/Toxicology studies of creek sediments

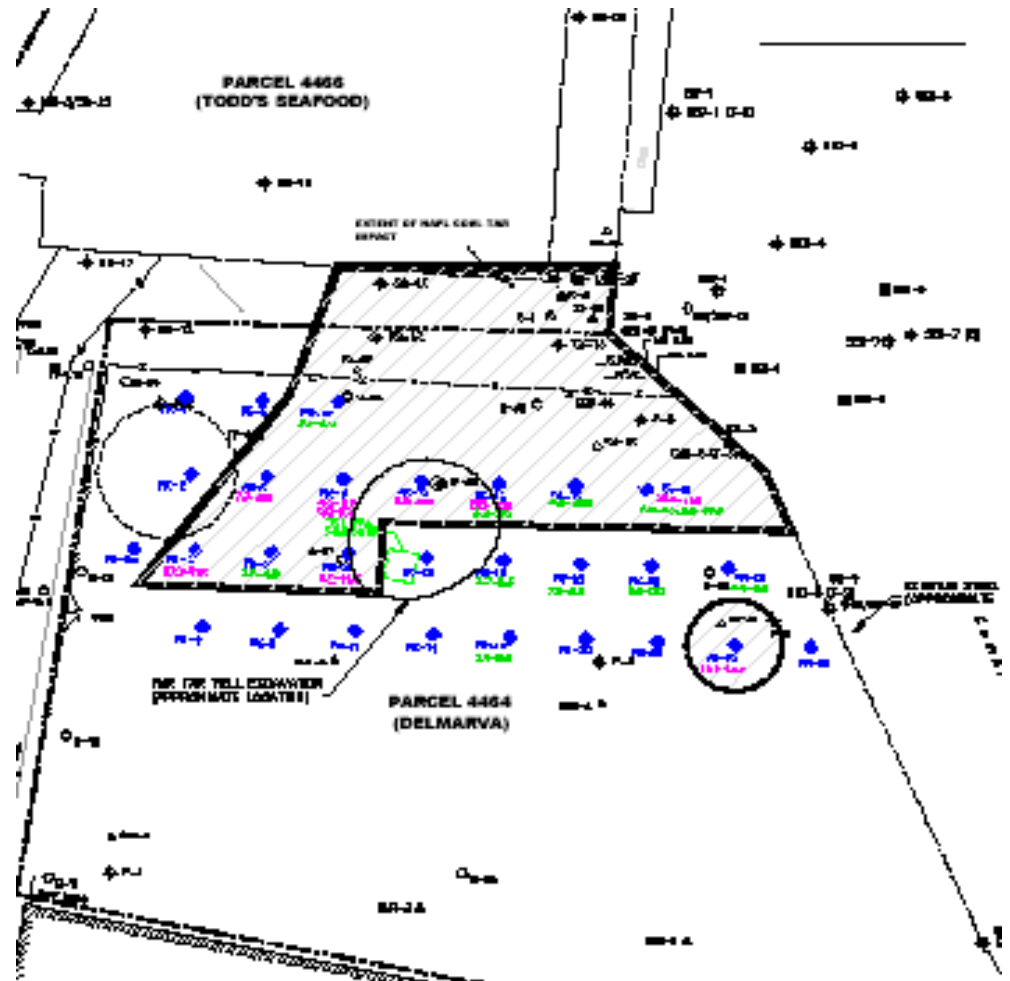


Environmental Activities -- Studies



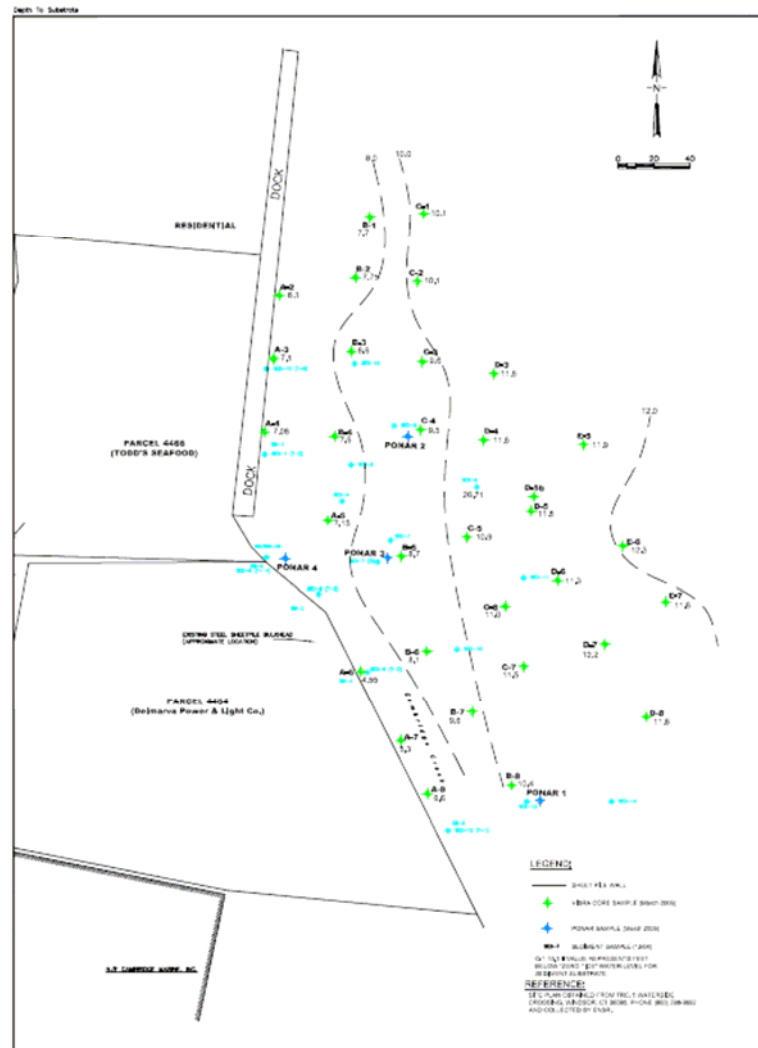
Environmental Activities — Land Side Findings

- Coal tar residual wastes found in soil on former MGP property and on Todd Property
- Coal tar not currently exposed at the surface, found beneath 2-3 ft. of top soil, to a max. depth of 9 ft.
- Approximately 10,000 sq./ft. area containing coal tar waste identified for removal
- Groundwater not significantly impacted



Environmental Activities — Creek-Side Findings

- Coal tar residual wastes found in creek sediments adjacent to Delmarva and Todd properties
- Coal tar is not currently exposed to creek water, typically found 1-3 ft. below creek bottom
- Area of 6,000 sq./ft. containing visual coal tar residuals
- Coal tar-related chemicals not identified in creek water samples

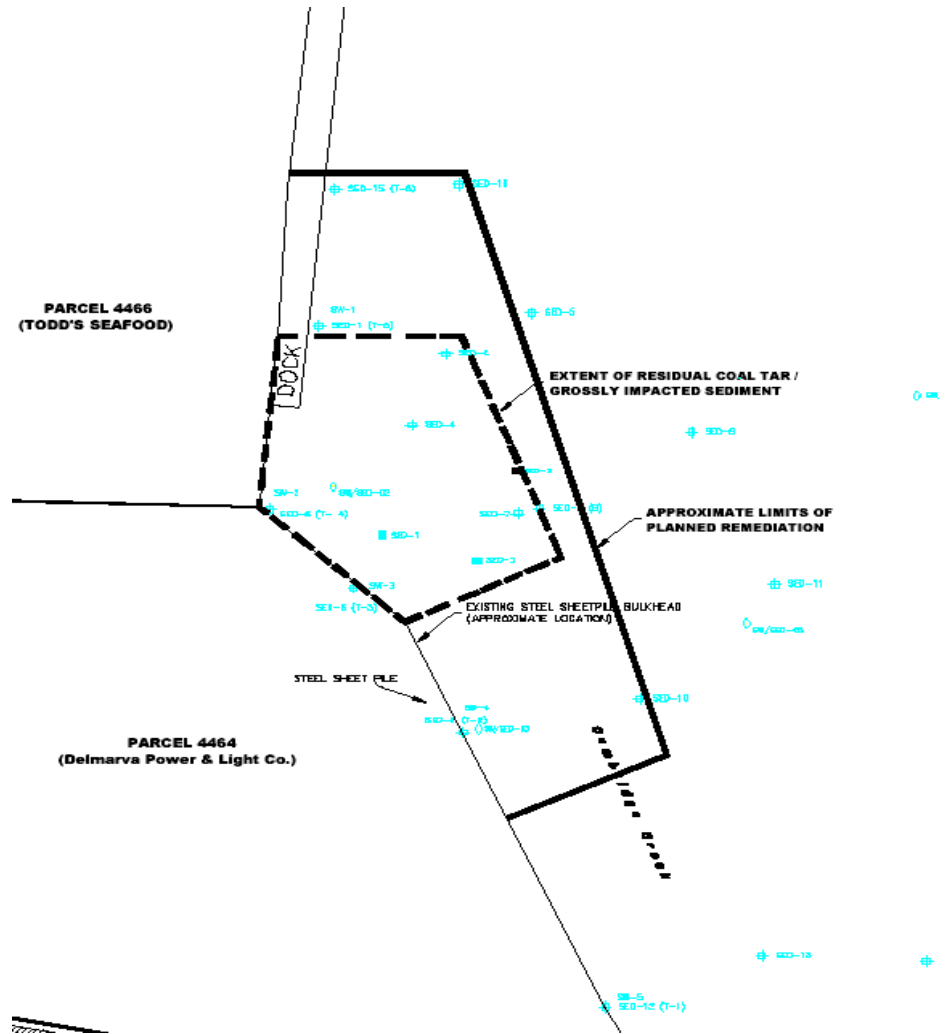


Planned Activities — Site Restoration

- Contaminated Site Soil and Creek Sediments
 - Soil and sediment impacted by coal tar residual materials will be remediated to protect human health and the environment
- Combination of remedial technologies and management strategies used to achieve these remediation goals
 - Removal or treatment of source materials to effectively address potential future risks posed by the site
- Cambridge Creek to be addressed first to allow use of the land as a work staging area
- Todd Seafood property to be addressed after creek
- Public Meeting on April 28, 2006

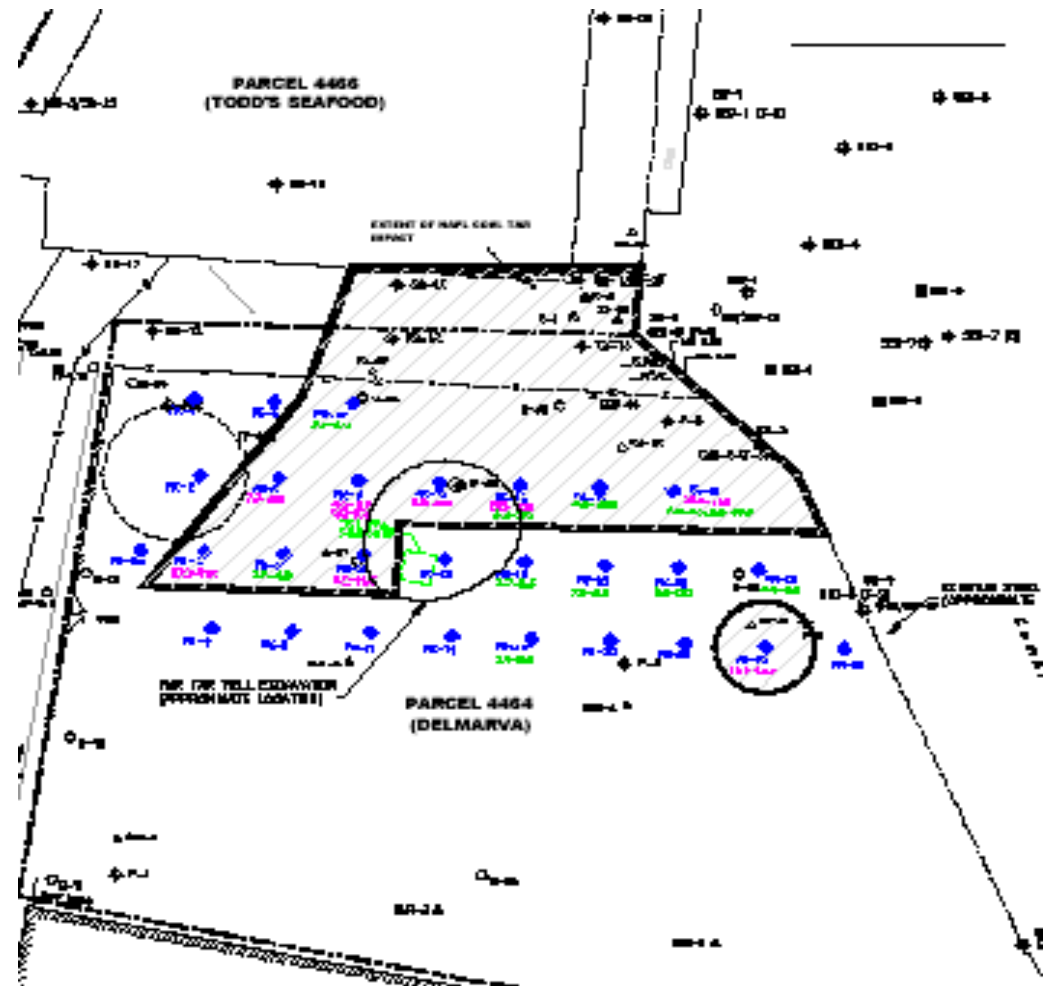
Planned Activities — Creek Restoration

- Creek Sediments: Approximate area shown will be addressed
- Coal tar will be removed from creek sediments and disposed of offsite at a permitted facility
- Remedy includes dredging and
 - Backfilling/capping with clean sand
 - Sediment stabilization
 - Upland disposal of stabilized sediment
 - Possible institutional controls



Planned Activities — Land Side Restoration

- Soil containing coal tar will be removed from the properties and disposed of offsite
- Remedy also includes:
 - Maintaining existing vegetative cover on former Town Gas Property
 - Installing clean earthen cover on Todd Property not affected by excavation
 - Institutional Controls (Deed Restrictions) on future use



Planned Activities—Creek Restoration, Control Measures

- All federal, state and local permits will be obtained.
- Delmarva will work under MDE and Army Corps of Engineers oversight
- Creek-Side Phase of Project -- Late 2007 to early 2008, a low boat traffic period
- A project specific Health and Safety Plan (HASP) will be developed
- The plan will include an air quality monitoring program, with nuisance odor control component

Planned Activities—Creek Restoration, Control Measures

- Use of sheet piling, sediment booms and/or silt curtains will be employed to limit the resuspension and transport of sediment
- Water quality testing will be in place during and following work
- Dredge spoils will be staged on the property in a bermed/diked area, covered as needed
- Dredge spoils will be transported off site for treatment as soon as practical
- Security perimeter will be maintained about job site

Planned Activities—Land Side Restoration, Control Measures

- A Sediment and Erosion Control Plan will be developed for the work site
- Excavated waste will be removed from site as soon as practical—trucks will be lined, covered, hosed down and inspected before leaving the site
- If stored on site, waste material will be covered and secured
- Air quality/Odor monitoring will be conducted throughout the project—odor barriers or odor suppressant employed if needed
- Work hours will be limited by prevailing local noise restrictions



PLANNED ACTIVITIES —PATH FORWARD AND SCHEDULE

CREEK-SIDE

- Permitting and remedy design – September 2007
- Field Program Implementation – Late 2007, Early 2008
- Follow up monitoring – TBD

LAND-SIDE

- Permitting and remedy design – Early 2008
- Field Program Implementation – Spring 2008
- Follow up monitoring – TBD



For Further Information:

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